PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report						
PW/3-22790	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.						
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)					
PCT/EP 03/12583	11/11/2003	19/11/2002					
Applicant		1					
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CIBA SPECIALTY CHEMICALS H	IOLDINGS INC.						
This International Search Report has beer	n prepared by this International Searching Auth	pority and is transmitted to the applicant					
according to Article 18. A copy is being tra	nsmitted to the International Bureau.	only and is transmitted to the applicant					
This International Search Report consists	of a total of 5 sheets.						
	a copy of each prior art document cited in this r	report.					
Basis of the report							
a. With regard to the language, the in	international search was carried out on the basi ess otherwise indicated under this item.	is of the international application in the					
the international search wa Authority (Rule 23.1(b)).	as carried out on the basis of a translation of th	e international application furnished to this					
• • • • • • • • • • • • • • • • • • • •	d/or amino acid sequence disclosed in the int	ernational application, the international search					
	nal application in written form.						
filed together with the inter	rnational application in computer readable form	1.					
furnished subsequently to	this Authority in written form.						
	this Authority in computer readble form.						
the statement that the sub- international application as	sequently furnished written sequence listing do s filed has been furnished.	es not go beyond the disclosure in the					
		identical to the written sequence listing has been					
2. Certain claims were foun	nd unsearchable (See Box I).						
3.	ing (see Box II).						
4. With regard to the title,							
X the text is approved as sub	omitted by the applicant.						
the text has been establish	ned by this Authority to read as follows:						
5. With regard to the abstract,							
	ned, according to Rule 38.2(b), by this Authority date of mailing of this international search repo						
6. The figure of the drawings to be publis	shed with the abstract is Figure No.						
as suggested by the application	ant.	None of the figures.					
because the applicant faile	d to suggest a figure.						
because this figure better c	haracterizes the invention.						

INTERNATIONAL SEARCH REPORT

International application No. PCT/EP 03/12583

Box I	ox I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)				
This Inter	national Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
ь ь	Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:				
3.	Claims Nos.: pecause they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II C	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)				
This Interr	national Searching Authority found multiple inventions in this international application, as follows:				
!	see additional sheet				
	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.				
2. A	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.				
3. A	As only some of the required additional search fees were timely paid by the applicant, this International Search Report sovers only those claims for which fees were paid, specifically claims Nos.:				
	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is estricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-3, 6, 12, 15(part)				
Remark or	The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-3, 6, 12, 15 (part)

Fluorescent whitening agent comprising a mixture of the compounds (1a), (1b), (1c), or (1d), (1e), (1f), or (1d), (1g), (1h) as disclosed in claims 1-3; a process for the preparation of a mixture of the compounds (1a), (1b), (1c) as disclosed in claim 1; use of the mixture of the compounds (1a), (1b), (1c) for the fluorescent whitening of paper; and paper, which has been treated with a fluorescent whitening agent comprising a mixture of the compounds (1a), (1b), (1c).

2. claims: 4, 7, 13, 15 (part)

A compound of the formula (2) as disclosed in claim 4 and method of its preparation as disclosed in claim 7; use of a compound of formula (2) for the fluorescent whitening of paper; and paper, which has been treated with a fluorescent whitening agent comprising a a compound of formula (2).

3. claims: 5, 8

A compound of the formula (3) as disclosed in claim 5 and method of its preparation as disclosed in claim 8.

4. claims: 9-11

A compound of the formula (4a) or a mixture comprising compounds of the formulae (4a), (4b) or (4c) as disclosed in claim 9 and method of their preparation as disclosed in claim 10; use of a compound of the formula (4a) for the preparation of a compound of formula (2).

5. claims: 14, 15 (part)

Use of a compound of formula (5) as disclosed in claim 14 for the fluorescent whitening of paper; paper, which has been treated with a fluorescent whitening agent comprising a a compound of formula (5).

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International Application No PCT/EP 03/12583

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D3/42 D21H21/30

CO7D251/50

C07D251/54

C09K11/06 D06M13/358 C07D251/68

D06L3/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
X	EP 0 850 934 A (CIBA GEIGY AG) 1 July 1998 (1998-07-01)	1-3		
Y	claims 1-6; example 3	6,12,15		
Y	US 6 165 973 A (BAKER RICHARD LEON) 26 December 2000 (2000-12-26) claims 9,10,13,14,18; example 1	6,12,15		
A	US 5 976 410 A (ROHRINGER PETER ET AL) 2 November 1999 (1999-11-02) claim 1; example 9	1-3,6		
A	WO 02/055646 A (CLARIANT INT LTD ;TINDAL ALEC STEWART (GB); FARRAR JOHN MARTIN (GB) 18 July 2002 (2002-07-18) claims 1,2	1-3,6		

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.	
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	 T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. document member of the same patent family 	
Date of the actual completion of the international search	Date of mailing of the international search report	
16 March 2004	0 3. 08. 2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Lehnert, A	

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/EP 03/12583

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Patent document cited in search report	Publication date		Patent family member(s)	Publication date
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